CLAIMS

That which is claimed is:

1. A thermoplastic additive composition comprising at least one anticaking agent component, and at least one compound conforming to the structure of Formula (I)

(I)

wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ are individually selected from the group consisting of hydrogen, C₁-C₉ alkyl, hydroxy, C₁-C₉ alkoxy, C₁-C₉ alkyleneoxy, amine, and C₁-C₉ alkylamine, halogen, phenyl, alkylphenyl, and geminal or vicinal carbocyclic having up to nine carbon atoms, R' and R" are the same or different and are individually selected from the group consisting of hydrogen, C₁-C₃₀ alkyl, hydroxy, amine, polyamine, polyoxyamine, C₁-C₃₀ alkylamine, phenyl, halogen, C₁-C₃₀ alkoxy, C₁-C₃₀ polyoxyalkyl, C(O)-NR₁₁C(O)O-R", and C(O)O-R", wherein R₁₁ is selected from the group consisting of C₁-C₃₀ alkyl, hydrogen, C₁-C₃₀ alkoxy, and C₁-C₃₀ polyoxyalkyl, and wherein R" is selected from the group consisting of hydrogen, a metal ion (such as, without limitation, Na⁺, K⁺, Li⁺, Ag⁺ and any other monovalent ions), an organic cation (such as ammonium as one non-limiting example), polyoxy-C₂-C₁₈-alkylene, C₁-C₃₀ alkyl, C₁-C₃₀ alkylene, C₁-C₃₀

 C_{30} alkyleneoxy, a steroid moiety (for example, cholesterol), phenyl, polyphenyl, C_1 - C_{30} alkylamine; wherein at least one of R' and R" is either C(O)- $NR_{11}C(O)O$ -R" or C(O)O-R", wherein if both R' and R" are C(O)O-R" then R" both R' and R" may be combined into a single bivalent metal ion (such as Ca^{2+} , as one non-limiting example) or a single trivalent metal overbase (such as Al-OH, for one non-limiting example).

2. The formulation of Claim 1 wherein said nucleating compound conforms to the structure of Formula (II)

(II)

$$R_{10}$$
 R_{10}
 R

wherein M₁ and M₂ are the same or different and are independently selected from the group consisting of metal or organic cations or the two metal ions are unified into a single metal ion (bivalent, for instance, such as calcium, for example), and R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ are individually selected from the group consisting of hydrogen, C₁-C₉ alkyl, hydroxy, C₁-C₉ alkoxy, C₁-C₉ alkyleneoxy, amine, and C₁-C₉ alkylamine, halogen, phenyl, alkylphenyl, and geminal or vicinal carbocyclic having up to 9 carbon

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atoms. Preferably, the metal cations are selected from the group consisting of calcium, strontium, barium, magnesium, aluminum, silver, sodium, lithium, rubidium, potassium, and the like.

- 3. The formulation of Claim 1 wherein said metal or organic cation is a metal cation selected from the group consisting of Group I and Group II metal ions.
- 4. The formulation of Claim 3 wherein said metal cation is selected from the group consisting of sodium, potassium, calcium, lithium, rubidium, barium, magnesium, and strontium, silver, zinc, aluminum.
- 5. The formulation of Claim 4 wherein said metal cation is sodium.
- 6. The formulation of Claim 2 wherein said nucleating compound conforms to the structure of Formula (II)

(II)

wherein M₁ and M₂ are the same or different and are independently selected from the group consisting of metal or organic cations or the two metal ions are unified into a single metal ion (bivalent, for instance, such as calcium, for example), and R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀ are individually selected from the group consisting of hydrogen, C₁-C₉ alkyl, hydroxy, C₁-C₉ alkoxy, C₁-C₉ alkyleneoxy, amine, and C₁-C₉ alkylamine, halogen, phenyl, alkylphenyl, and geminal or vicinal carbocyclic having up to 9 carbon atoms.

- 7. The formulation of Claim 6 wherein said metal or organic cation is a metal cation selected from the group consisting of Group I and Group II metal ions.
- 8. The formulation of Claim 7 wherein said metal cation is selected from the group consisting of sodium, potassium, calcium, lithium, rubidium, barium, magnesium, strontium, silver, zinc, and aluminum.
- 9. The formulation of Claim 8 wherein said metal cation is sodium.
- 10. The formulation of Claim 1 wherein said anticaking agent is selected from the group consisting of silica gel, talc, dihydrotalcite, metal carboxylic acids, and any mixtures thereof.
- 11. The formulation of Claim 10 wherein said anticaking agent is a silica gel.

12. A thermoplastic article comprising the formulation of Claim 1 and at least one polyolefin.

- 13. A thermoplastic article comprising the formulation of Claim 2 and at least one polyolefin.
- 14. A thermoplastic article comprising the formulation of Claim 10 and at least one polyolefin.
- 15. The thermoplastic article of Claim 12 wherein said polyolefin is a polypropylene.
- 16. The thermoplastic article of Claim 13 wherein said polyolefin is a polypropylene.
- 17. The thermoplastic article of Claim 14 wherein said polyolefin is a polypropylene.
- 18. A polymer additive formulation as defined in Claim 1, wherein said formulation is present in a form selected from the group consisting of a powder, a pellet, or a liquid, and wherein said composition also comprises at least one thermoplastic polymer.
- 19. A polymer additive formulation as defined in Claim 2, wherein said formulation is present in a form selected from the group consisting of a powder, a pellet, or a liquid, and wherein said composition also comprises at least one thermoplastic polymer.

20. A polymer additive formulation as defined in Claim 10, wherein said formulation is present in a form selected from the group consisting of a powder, a pellet, or a liquid, and wherein said composition also comprises at least one thermoplastic polymer.